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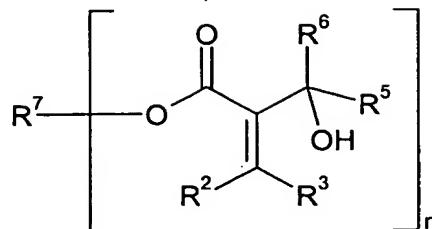
AP3 Rec'd PCT/PTO 06 JUN 2008

THE FOLLOWING ARE THE ENGLISH TRANSLATION
OF ANNEXES TO THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT (ARTICLE 34):

Amended Sheets (Pages 30-32a)

Claims

1. A compound of the formula (V),



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(V)

in which

10 R^2 and R^3 independently of one another are C_1-C_{18} alkyl, C_2-C_{18} alkyl if appropriate interrupted by one or more oxygen and/or sulfur atoms and/or one or more substituted or unsubstituted imino groups, C_2-C_{18} alkenyl, C_6-C_{12} aryl, C_5-C_{12} cycloalkyl or a five- to six-membered oxygen-, nitrogen- and/or sulfur-containing heterocycle, it being possible for each of the stated radicals to be substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles,

15 R^2 and/or R^3 are/is additionally hydrogen, C_1-C_{18} alkoxy optionally substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles, or $-COOR^4$,

20 R^2 may additionally together with R^1 form a ring, in which case R^2 can be a carbonyl group, so that the group $COOR^1$ and R^2 together form an acid anhydride group $-(CO)-O-(CO)-$,

25 R^4 is C_1-C_{18} alkyl, C_2-C_{18} alkyl if appropriate interrupted by one or more oxygen and/or sulfur atoms and/or one or more substituted or unsubstituted imino groups, C_2-C_{18} alkenyl, C_6-C_{12} aryl, C_5-C_{12} cycloalkyl or a five- to six-membered oxygen-, nitrogen- and/or sulfur-containing heterocycle, it being possible for each of the stated radicals to be substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles,

30 R^5 and R^6 independently of one another are hydrogen, C_1-C_{18} alkyl, C_2-C_{18} alkyl if appropriate interrupted by one or more oxygen and/or sulfur atoms and/or one or more substituted or unsubstituted imino groups, C_2-C_{18} alkenyl, C_6-C_{12} aryl, C_5-C_{12} cycloalkyl or a five- to six-membered oxygen-, nitrogen- and/or sulfur-containing heterocycle, it being possible for each of the stated radicals to be substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles, or

may together form a ring,

n is a positive integer from 3 to 10, and

5 R⁷ is an n-valent organic radical having 1 to 50 carbon atoms which can be unsubstituted or substituted by halogen, C₁-C₈ alkyl, C₂-C₈ alkenyl, carboxyl, carboxy-C₁-C₈ alkyl, C₁-C₂₀ acyl, C₁-C₈ alkoxy, C₆-C₁₂ aryl, hydroxyl or hydroxy-substituted C₁-C₈ alkyl and/or can contain one or more -(CO)-, -O(CO)O-, -(NH)(CO)O-, -O(CO)(NH)-, -O(CO)- or -(CO)O- groups.

10 2. The compound according to claim 1, wherein n is 3 or 4 and

 R⁷ is derived from an n-hydric alcohol by removing n hydroxyl groups,

15 15 the n-hydric alcohol being trimethylolpropane, pentaerythritol or a singly to vigintuply ethoxylated trimethylolpropane.

20 3. A coating composition comprising

 - at least one compound of the formula (V) as defined in claim 1, or of the formula (VII) as defined in claim 10, and

 - at least one photoinitiator (P).

25 4. The coating composition according to claim 3, further comprising

 - at least one reactive diluent and/or

 - at least one polyfunctional polymerizable compound.

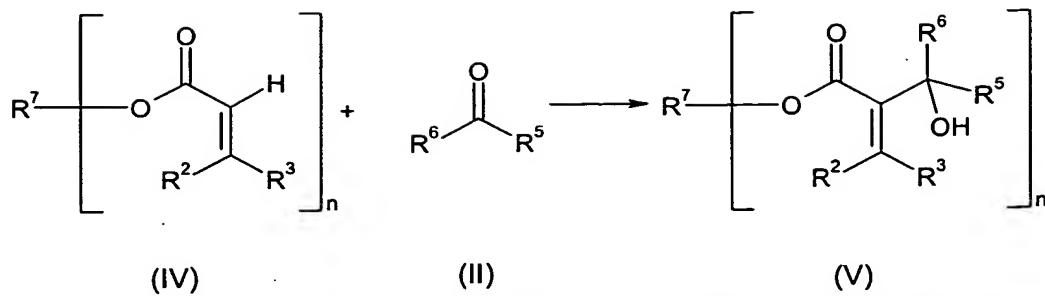
30 5. The coating composition according to claim 3 or 4, further comprising

 - at least one compound (B) containing at least one hydroxy (-OH)-reactive group.

35 6. A method of coating substrates, wherein a coating composition according to any one of claims 3 to 5 is used.

7. A substrate coated with a coating composition according to any one of claims 3 to 5.

35 8. A process for preparing a compound of the formula (V)

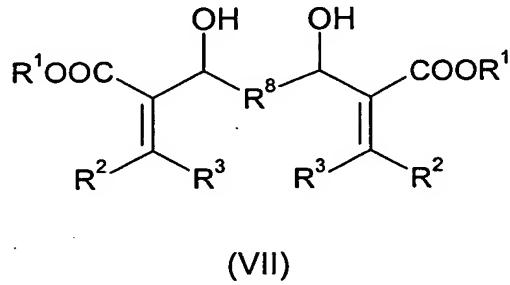


as defined in claim 1, it being possible for n to be additionally 2, wherein the compound (II) is an aldehyde $\text{R}^5\text{-CHO}$ and is used in free form so that in formals of the formula $(\text{R}^5\text{-CHO})_w$, in which w is a positive integer, w is ≤ 20 .

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9. The use of α -(1'-hydroxyalkyl)acrylates in coating compositions for dual-cure applications.
10. The use of compounds of the formula (V) as defined in claim 8 or (VII)

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(VII)

in which R^2 and R^3 are as defined in claim 1,

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R^1 is $\text{C}_1\text{-C}_{18}$ alkyl, $\text{C}_2\text{-C}_{18}$ alkyl if appropriate interrupted by one or more oxygen and/or sulfur atoms and/or one or more substituted or unsubstituted imino groups, $\text{C}_2\text{-C}_{18}$ alkenyl, $\text{C}_6\text{-C}_{12}$ aryl, $\text{C}_5\text{-C}_{12}$ cycloalkyl or a five- to six-membered oxygen-, nitrogen- and/or sulfur-containing heterocycle, it being possible for each of the stated radicals to be substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles, and

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R^8 is unsubstituted or halogen-, $\text{C}_1\text{-C}_8$ alkyl-, $\text{C}_2\text{-C}_8$ alkenyl-, carboxyl-, carboxy- $\text{C}_1\text{-C}_8$ alkyl-, $\text{C}_1\text{-C}_{20}$ acyl-, $\text{C}_1\text{-C}_8$ alkoxy-, $\text{C}_6\text{-C}_{12}$ aryl-, hydroxyl- or hydroxy-substituted $\text{C}_1\text{-C}_8$ alkyl-substituted $\text{C}_6\text{-C}_{12}$ arylene, $\text{C}_3\text{-C}_{12}$ cycloalkylene or $\text{C}_1\text{-C}_{20}$ alkylene or is $\text{C}_2\text{-C}_{20}$ alkylene interrupted by one or more oxygen and/or sulfur atoms and/or one or more substituted or unsubstituted imino groups and/or by one or more $-(\text{CO})$ -, $-\text{O}(\text{CO})\text{O}$ -, $-(\text{NH})(\text{CO})\text{O}$ -, $-\text{O}(\text{CO})(\text{NH})$ -, $-\text{O}(\text{CO})$ - or $-(\text{CO})\text{O}$ - groups or is a single bond

in radiation curing.